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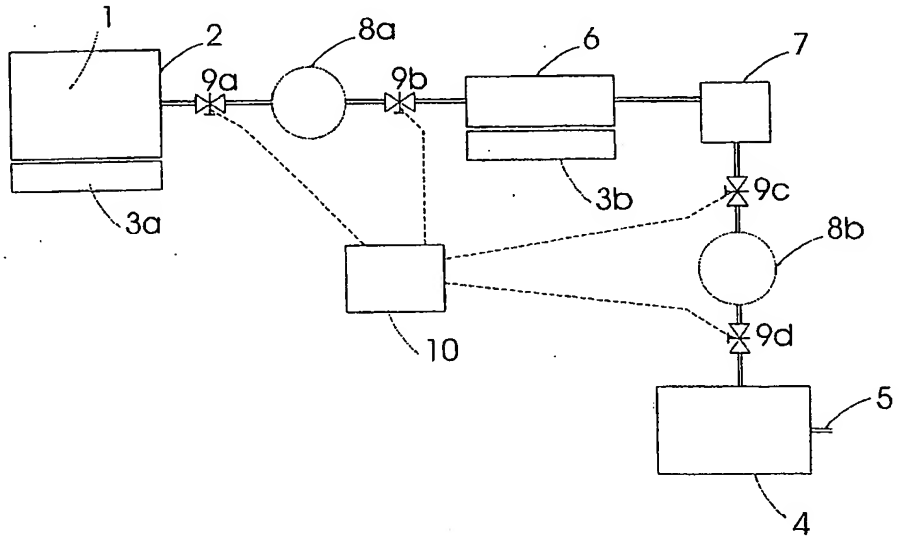
(54) Title: USE OF AN AMMONIA STORAGE DEVICE IN PRODUCTION OF ENERGY



(57) Abstract: An electric power generating unit comprising (i) an ammonia storage device in the form of a container (2) comprising an ammonia absorbing and releasing salt of the general formula: M < sb > a < / sb > (NH < sb > 3 < / sb>) < sb > n < / sb > X < sb > z < / sb > , wherein M is one or more cations selected from alkali metals, alkaline earth metals, and transition metals such as Li, K, Mg, Ca, V, Cr, Mn, Fe, Co, Ni, Cu or Zn, X is one or more anions selected from fluoride, chloride, bromide, iodide, nitrate, thiocyanate, sulphate, molybdate, phosphate, and chlorate ions, a is the number of cations per salt molecule, z is the number of anions per salt molecule, and n is the coordination number of 2 to 12. (ii) means (3a) for heating said container (2) and ammonia absorbing and releasing salt for releasing ammonia gas and (iiia) a fuel cell for converting ammonia directly into electric power; or (iiib1) a reactor (6) for dissociating ammonia into hydrogen and nitrogen and (iiib2) a fuel cell (4) for converting hydrogen into electric power.

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